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hCOLAI PRO MA - - - - - HYITELCMVILVILLONSVLAE 23
Co9alpm MK - - - - - TCVKIPVVFHVSFFIEFWASAAVKRR 28
Coll9alpm MRLTGFWL - - - - - WLWMSIFILL - ASTSVTV 27

hCOLAI PRO DGEVRS SCRTAPTDTVFILLDQSY SVGFENF 33
Co9alpm PRFPVNSNSNGGNELCPKIRIG - QDDFPGE 37
Coll9alpm DK - - - - - TEHS CPILRIE - GHQIT - Y 46

hCOLAI PRO EIVKKWL VNI TKNFI GPKFI QVGVVQYSD 83
Co9alpm DLISQFQVD - - - - - KAASRRRAI QRVVGSAT 82
Coll9alpm DNTNRLEV S - - - - - GIDL GDSFSLRFAFCESD 73

hCOLAI PRO PVL EIP LGS YDS GERLTAAVES I - LYLGG 112
Co9alpm LQV - - - - - AVKLLGNVDFRIPRNIN - - - 103
Coll9alpm NT - - - - - CFHNGSALLIR - TIKIF - 92

hCOLAI PRO NTETGKAIQFALDYLFAKSSFFLTRIAVVL 142
Co9alpm - - - - - GIDDEVSFLTTRMTQSTLCKNNVNI 131
Coll9alpm - - - - - PKGIDDEVSVAAMRRVRNAKRRERWFLW 120

hCOLAI PRO TDGKSQDDVKDAAQAARDRIITLFAIGVGS 172
Co9alpm QIQDSGKEQVGIKINGOTQS VFSY - - - 157
Coll9alpm QVLNQGIPIGISITVVDGSKRVVEFMF - - - 146

hCOLAI PRO RTEBAELAIANKPSSYVVFYVREDYIATSK 202
Co9alpm KOLDGSLQTAESN - - - - - SSLLPDSQVHRI MI 185
Coll9alpm QATEGDLVLYIFRNRRTTRPFPDRQVHRLQI 176

hCOLAI PRO IREVMKQKEEESVOPTRIEVAARDE - - - R 229
Co9alpm GVERSSATFAVDGHAESLMIKPRQPIDI 215
Coll9alpm SIQSQVISYHDCILLARERQTDEKIDTVDFH 206

hCOLAI PRO GEDILLOQDVNNKMKRLOESPKKI KOYEV 259
Co9alpm GRAVIGKIDRDNOMSVFBIQWMLIHCDPL 245
Coll9alpm GRTVIATRASDSN - PVDIRHQLKIYCSAN 235

hCOLAI PRO TS KVDLS - ELTSNFPN - - - - - GLFPXYVF 283
Co9alpm RPRRRETHCHETPARTISO - - - - - 263
Coll9alpm ITAQETICCHISDTKTRDODGONIASKWT 265

hCOLAI PRO VSTQRYK - VKKIWDNW - - - - - RILTI DGRFQ 308
Co9alpm AHASKM - SYLP AKLEKDPQCCIPNKGAEAG 295
Coll9alpm - - - - - 263

hCOLAI PRO IAVILGQVDKILLFTTIVVINGSDVVTEAN 338
Co9alpm - - - - - ITDERGFPGEQGPQGSAGFPQVPGIDG 290
Coll9alpm IFGAGOSFPQKQHKEZPGENALISATGFP 323

hCOLAI PRO PQVKLITDEGWHQJRLLVTHQDVTLYIDDO 368
Co9alpm IDDE - - - - - DRGPKGFPFPFGPAEPGKPGAP 316
Coll9alpm QKG - - - - - EQGFEGSKGETGHEGEQGEKGBP 351

hCOLAI PRO QIENKPLEHFLVGLILINGOQTQICKYSGLEBT 398
Co9alpm GKFGTTPGADGLTGFDSFGSIEKQQRGEP 346
Coll9alpm ALACLNGENGLKGVLCFPGFPGRNGERCDT 381

hCOLAI PRO VQFDVQKH - - RIYCDPEONNRETAEIFGF 426
Co9alpm QVPGSRGFPGR - GIPGPPGPPGTAELPGEL 375
Coll9alpm GFDGPPAPPGSLGTQGPQGGPPGKHEGRGR 411

hCOLAI PRO CLNGESDVGSTIAPCI CFFGKPG - - - - - 449
Co9alpm GRVGEVGDGRRRGW - DQDGGFPGPROMIGF 404
Coll9alpm GKTGFPFGKPGFPGW - DQDGGI QSIHQITSG 440

hCOLAI PRO - - - - - - - - - - - LQGFHGDGGLPGND 463
Co9alpm HD - - - - - GDPLCPNACPPGRSGYDGLHGR 429
Coll9alpm DDNKNKDKNDEHEAGGLKGDHGETGLHGP 470

FIG. 6A

delete Delete

[illegible]

~~FIG. 6B~~

Delete



~~hCOLA1 .PRO L V G V P G R P G V R G L K G L P G R N G E X G S Q G F . . 880~~
~~Col9a1.pro A L G L R G P K G G D L G E K G E R G G P P G R 848~~
~~Col19a1.pro P M G P P G N K G S M G S P G H Q G P P G S P G I P G I P A 1010~~

~~hCOLA1 .PRO 880~~
~~Col9a1.pro 848~~
~~Col19a1.pro D A V S F E E I K K Y I N Q E V L R I F E E R M A V F L S Q 1040~~

~~hCOLA1 .PRO G Y P G E Q G P P G P P G P 894~~
~~Col9a1.pro G P N G L P G A I G L P G . . . D 862~~
~~Col19a1.pro L K P A A M L A A Q A Y G R P G P P G K D G L P G P P G D 1070~~

~~hCOLA1 .PRO E G F G I S H E G P P G D P G L P G 913~~
~~Col9a1.pro P G P A S Y G M N G R D G E R C P P G 881~~
~~Col19a1.pro P G P Q L Y . . R G Q K G E R G E P P G I G L P G S P G L P G 1098~~

~~hCOLA1 .PRO K D G D H G K P G I G G P P P P G I C D P S L C 938~~
~~Col9a1.pro L A G I P G V P G P G P P G L P G F C E P A S C C 906~~
~~Col19a1.pro T S A L G L I G S P G A P G P G P P G S C R G N P E D C 1128~~

~~hCOLA1 .PRO F S V I A R R R E F R K G P N Y 954~~
~~Col9a1.pro T M Q L V S . E H L T K G L T L E R L T A A W L S A 931~~
~~Col19a1.pro L Y P V S H . A H S R T G G N 1142~~

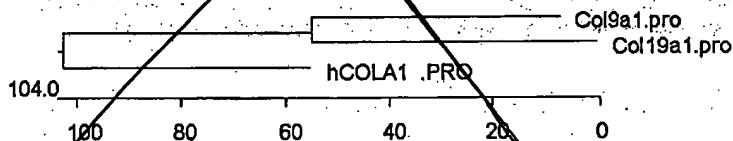


FIG. 6C

delete Delete

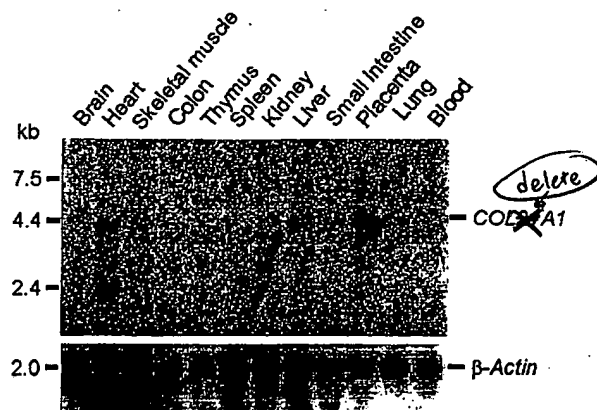
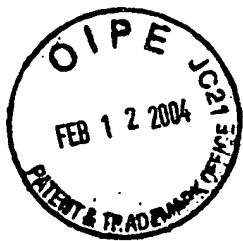


FIG. 1A

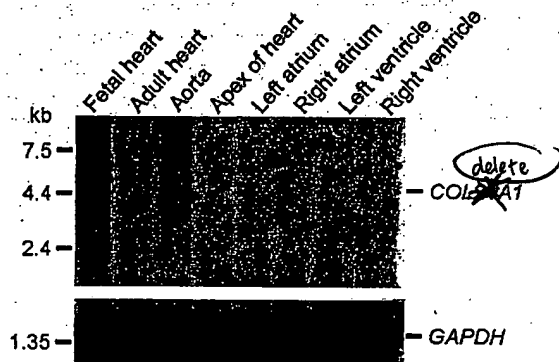


FIG. 1B

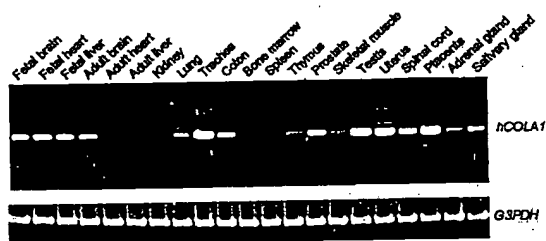
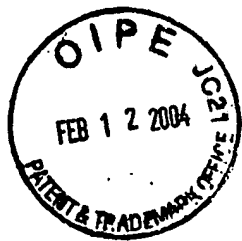


FIG. ~~8~~
7



add a mark
hCOLA1

FIG. ~~A~~
8



FIG. ~~B~~
8



add a mark
hCOLA1

FIG. ~~C~~
8

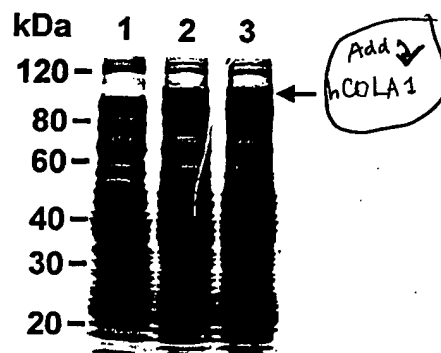
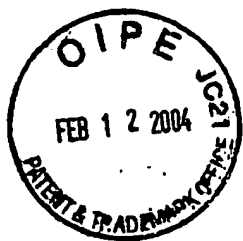


FIG. 1A

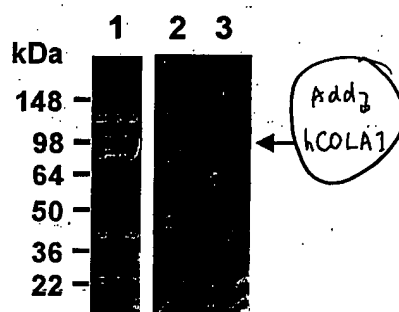


FIG. 1B



hCOLA1 - +

bp
10,000
8,000
6,000
5,000
4,000
3,000
2,000
1,500
1,000
500



add a mark
hCOLA1

FIG. ~~IX~~
10